

# The Towers from HANOI

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## The game

This game "The towers from HANOI" comes from Asia. The aim of this game is to move all the disks from the first stack (left) to the last stack (right). You can move a disk to a certain stack, when the upper disk in that stack bigger than the disk you want to move. You can use all the three stacks to solve the game.

## How to play?

You can only play this game with your mouse. First pick at the stack, where the disk you want to move. The upper disk will be moved up, then pick at the stack to which you want the disk moved. This disk will be moved if it is possible. Otherwise you will hear a beep (when the upper disk in the stack smaller than the disk you want to move).

The number of moves you made will be shown in the 2nd field right in the status line.and the optimal number of moves to solve HANOI will be shown in 1st field.

## Game menu

New  
Exit

## Spiel-Neu

**Menu :** Game - New

**Toolbar :** 

### Description

If you pick this menu point (or pick the symbol shown above), a new game will be started. The number of disks is the same as the last game you played. To change the number of disks, you have to use the menu "Options". If you can not solve HANOI, you may use this function to start the game over. When you start the program the number of disks is the same like the last time you played HANOI

## Game Exit

**Menu :** Game - Exit

**Toolbar :** 

### Description

If you want to exit the program, please pick this menu point. You can also do the same by picking the Exit symbol shown above in the toolbar.

## Options

**Menue :** Options

### Description

You can play the game with a various number of disks. The first time you play this game, a 3-disks game will be loaded. To change the number of disks choose the menu "Options", and then choose from this menu the number of disks (between 3 and 15). Please note that the number of moves you need to solve HANOI are grows rapid.

You may check that using this form:

$$\text{Moves} = 2^{\text{Disks}} - 1$$

This mein, you need at least 7 moves to solve a 3-disks game and you need 15 moves to solve a 4-disks game, ... and 32767 moves to solve a 15-disks game.

## View

**Menu :** View

### **Description**

This menu has 2 submenus, Toolbar and Statusbar. You may show or hide the toolbar or the status line by picking one of these submenus.



## Tips

- 1- You may move the upper disk to the last stack (right) if the number of disks is odd, and to the middle stack if the number of disks is even.
- 2- The radius and height of the disks depend on the width and height of the window. This means you can change the radius and height of the disks by changing the width and height of the window. When you mean the disks are small enlarge the window size to enlarge them or vice versa.
- 3- Try first to solve a 3-disks game before you try another games.

